

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/001053

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC7 F16K 5/06

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7: F16K 5, F16K 27

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR, JP: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 56-101477 A (TLV Co., Ltd.) 14 AUGUST 1981 See the whole document.	1 - 3
A	US 5, 396,922 (Nefit Industrial B.V.) 14 MARCH 1995 See the whole document	1 - 3
A	US 4,523,740 (Hayward Industries) 18 JUNE 1985 See the whole document	1 - 3

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

## \* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

18 AUGUST 2004 (18.08.2004)

Date of mailing of the international search report

18 AUGUST 2004 (18.08.2004)

Name and mailing address of the ISA/KR



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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

PCT/KR2004/001053

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 56-101477 A	14-08-1981	NONE	
US 5,396,922	14-03-1995	NL 9300749 A EP 0623770 A1	01-12-1994 09-11-1994
US 4,523,740	18-06-1985	NONE	